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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 10/044,714 01:12/2002 180577-00120 Vinh N. Le 1267 31013 7590 07 11 2003

KRAMER LEVIN NAFTALIS & FRANKEL LLP INTELLECTUAL PROPERTY DEPARTMENT 919 THIRD AVENUE NEW YORK, NY 10022

EXAMINER DOROSHENK, ALEXA A

ART UNIT PAPER NUMBER

1764

DATE MAILED: 07/11/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)
		10/044,714	LE ET AL.
	Office Action Summary	Examiner	Art Unit
		Αlexa A. Doroshenk	1764
Period fo	The MAILING DATE of this communication ap		correspondence address
A SH THE I - Exter after - If the - If NO - Failu	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a replayer of the provision of the	136(a). In no event, however, may a reply be ply within the statutory minimum of thirty (30) d d will apply and will expire SIX (6) MONTHS fro	timely filed ays will be considered timely. im the mailing date of this communication.
Status earne	ed patent term adjustment. See 37 CFR 1.704(b).	ng data at this communication, even it timely the	eu, may reduce any
1)[Responsive to communication(s) filed on 14	May 2003	
2a)□		his action is non-final.	
3)	Since this application is in condition for allow		proposition on to the end it.
,	closed in accordance with the practice under on of Claims	Ex parte Quayle, 1935 C.D. 11,	453 O.G. 213.
4)	Claim(s) 1-8 is/are pending in the application.		
4	4a) Of the above claim(s) <u>7 and 8</u> is/are withdr	rawn from consideration.	
5)	Claim(s) is/are allowed.		
6)⊡	Claim(s) <u>1-6</u> is/are rejected.		
7)	Claim(s) is/are objected to.		
8)[-]	Claim(s) <u>1-8</u> are subject to restriction and/or e	lection requirement.	
Application	on Papers	·	
	he specification is objected to by the Examine		
10) T	he drawing(s) filed on <u>มีเปิด</u> is/are: a) ⊠ acce	pted or b) objected to by the Exa	aminer.
	Applicant may not request that any objection to the	e drawing(s) be held in abeyance. S	See 37 CFR 1.85(a).
11)∐ T	he proposed drawing correction filed on		oved by the Examiner.
	If approved, corrected drawings are required in re		
	he oath or declaration is objected to by the Ex	aminer.	
Priority ur	nder 35 U.S.C. §§ 119 and 120		
13) 🗌 🛚 A	Acknowledgment is made of a claim for foreigr	n priority under 35 U.S.C. § 119(a	a)-(d) or (f).
a)[_	All b) Some * c) None of:		
1	I. Certified copies of the priority documents	s have been received.	
2	2. Certified copies of the priority documents	s have been received in Applicati	ion No
 Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). See the attached detailed Office action for a list of the certified copies not received. 			
	knowledgment is made of a claim for domestic		
a)	☐ The translation of the foreign language procknowledgment is made of a claim for domesti	visional application has been rec	eived
Attachment(s	s)	1 2.11, 2.120, 30 0.0.0. 38 120	, ana/01 121,
?)	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) ation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal 6	y (PTO-413) Paper No(s) Patent Application (PTO-152)
Patent and Trad O-326 (Rev.		ion Summary	Part of Paper No. 6

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DETAILED ACTION

Election/Restrictions

1. This application contains claims directed to the following patentably distinct species of the claimed invention:

Species A, wherein the apparatus comprises a sealed heat pipe as recited in claims 2-6.

Species B, wherein the apparatus comprises a thermosyphon heat pipe as recited in claims 7-8.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, Claim 1 is generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

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Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

2. During a telephone conversation with William Spatz on June 24, 2003 a provisional election was made with traverse to prosecute the invention of Species A, claims 1-6. Affirmation of this election must be made by applicant in replying to this Office action. Claims 7 and 8 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

Specification

3. The disclosure is objected to because of the following informalities: on Page 10, line 12 and line 13 "condensers 60a-d" should be recited as "condensers 160a-d" as illustrated in Figure 2.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

⁽b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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5. Claims 1-6 are rejected under 35 U.S.C. 102(b) as being anticipated by Matsugi et al. (5,667,758).

With respect to claim 1, Matsugi et al. discloses a reactor comprising:
a tank reaction vessel (6) with an interior volume for a reaction mixture (16);
thermally conductive reaction vessel walls (13); and

at least one heat pipeheat transfer device (9) attached to an exterior of the reaction vessel wall surface.

With respect to claim 2, Matsugi et al. further discloses wherein the heat pipe heat transfer unit is a sealed heat pipe (see element 9 of fig. 1, 2 and 7-9).

With respect to claims 3 and 5, Matsugi et al. further discloses wherein the sealed heat pipe is contained within a jacket-type cooler (14).

With respect to claim 4, Matsugi et al. further discloses wherein the heat pipe heat transfer unit at least substantially circumscribes said tank reaction vessel (col. 5, lines 14-27).

The examiner notes that the claims are directed toward an apparatus and an apparatus claim covers what a device is, not what a device does. MPEP 2114. With respect to claim 6, the reaction vessel being a batch or a continuous reactor is an operational limitation which does not impart a structural distinction to the invention. Since no further structural limitations are recited, the claim continues to read on the apparatus of Matsugi et al.

Claims 1-6 read directly on the apparatus of Matsugi et al.

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Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alexa A. Doroshenk whose telephone number is 703-305-0074. The examiner can normally be reached on Monday - Thursday from 9:00 AM - 7:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Glenn Caldarola can be reached on 703-308-6824. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9310 for regular communications and 703-872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.

Alexa Doroshenk

Doushende

Patent Examiner

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July 9, 2003

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